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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/034,860

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EXAMINER

SAFAIPOUR, HOUSHANG

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

10/02/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/034,860	<b>Applicant(s)</b> CHEN ET AL.	
	<b>Examiner</b> HOUSHANG SAFAIPOUR	<b>Art Unit</b> 2625	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 June 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3 and 5-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 8-10 and 13-17 is/are rejected.
- 7) ☒ Claim(s) 6, 7, 11, 12, 16 and 17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Claim Objections***

Claim 16 recites "...first color model comprises a RGB color model."

Claim 17 recites "...first color model comprises a YUV color model."

To facilitate examination of the application, examiner has assumed that the second color model comprises a YUV color model. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) and further in view of Kim (US 6,078,686).

Regarding claims 1 and 15, AAPA discloses a circuit, comprising:

a plurality of gain amplifiers (102, 104 and 106 [fig. 1]) , adapted to impart a gain to an associated plurality of color signals according to a first color model (RGB signals, [fig. 1]);

an adder, to combine said amplified color signals to provide one or more output signals (fig. 1, multiplexer 108); and

Kim discloses means (converter 100, fig. 1) for providing said one or more output signals (RGB) as one or more color signals according to a second color model (fig. 1, YUV). Therefore it would have been obvious to a person of ordinary skill in the art to use such converter in the circuit for signal processing of a conventional scanner as disclosed by AAPA.

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Regarding claims 2 and 16, combination of AAPA and Kim discloses the apparatus of claim 15, wherein the first color model comprises a RGB color model (fig. 1 of AAPA and Kim).

Regarding claims 3 and 17, combination of AAPA and Kim discloses the apparatus of claim 15, wherein the **second** color model comprises a YUV color model (fig. 1 of Kim).

Claims 5, 8, 9, 10, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA), and further in view of Cheng (US 6,052,147).

Regarding claims 5, 8, 10 and 13, AAPA discloses a circuit, comprising:

a plurality of sampling-amplified-offset devices (102, 104 and 106), to sample, amplify and compensate levels of an R charge signal, a G charge signal and a B charge signal, respectively, to obtain an R analog signal, a G analog signal and a B analog signal (fig. 1);

Cheng discloses a gain adder, adapted to multiply one or more of the R, G and B analog signals by a corresponding weighted value, and to add one or more of the R, G and B analog signals multiplied by the weighted values to obtain a summed analog signal; and

AAPA discloses a multiplexer (108), to select one or more of the R analog signal, the G analog signal, the B analog signal or the summed analog signal as an output signal. Therefore it would have been obvious to a person of ordinary skill in the art to include a gain adder as disclosed by Cheng in a circuit disclosed by AAPA.

Regarding claims 9 and 14, AAPA discloses the circuit according to claim 5, wherein the multiplexer (108) selects the R, G or B analog signals and outputs a selected one to an analog-digital converter, which then converts the selected one into a digital signal (fig. 1).

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***Allowable Subject Matter***

3. Claims 6, 7, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOUSHANG SAFAIPOUR whose telephone number is (571)272-7412. The examiner can normally be reached on Mon.-Fri. from 6:00am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on (571)272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Houshang Safaipour/  
Primary Examiner, Art Unit 2625